



Functional Independence Mathematics

Official Released Items

Grade 7

**Fall 2005
Official Released Items**

**MICHIGAN STATE BOARD OF EDUCATION
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The Functional Independence Mathematics Assessments for grades 3 through 8 were administered for the first time in fall 2005. Beginning with this administration, the Office of Educational Assessment and Accountability (OEAA) will release a portion of the items that were administered in each grade each year. This booklet contains released items from the fall 2005 administration and is intended to be used by districts to assist in their interpretation of item analysis data. The information contained in this booklet may also be used by schools, teachers, and parents as a resource for understanding the content and format of the assessment items. In addition to MI-Access training materials and Extended Grade Level Content Expectations (EGLCE), the released items may also have utility in informing decisions related to instruction, curriculum, and assessment. These items are **not** secure and may be copied and distributed as needed.

The table below lists the number of core and released items from the fall 2005 assessment booklets. Core items are those that count toward students' scores. All released items in this booklet were selected from the pool of core items that appeared on the assessment.

Functional Independence - Mathematics

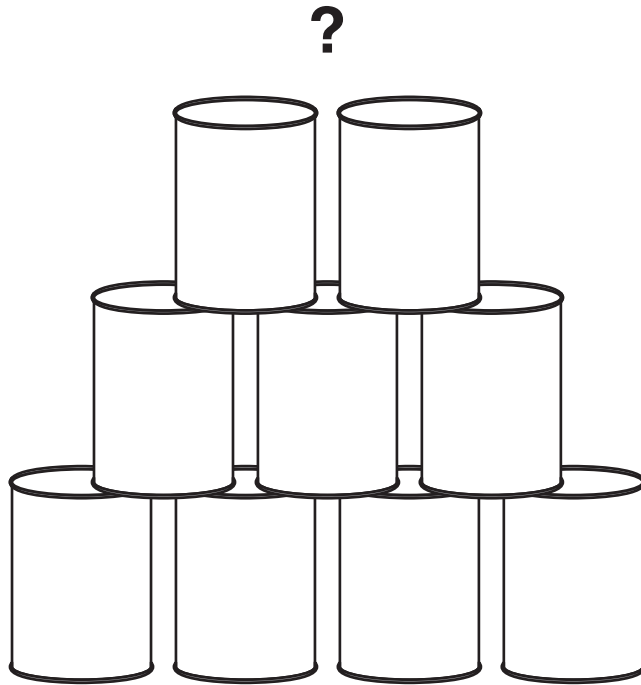
Mathematics Strand	Number of Core Items
Numbers and Operations	17
Measurement	12
Geometry	3
Data and Probability	3
Total Core Items/Points	35
Released Items	10 (Numbers vary by strand and topic.)

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DIRECTIONS: Read each question. Choose the **BEST** answer for each question.

Use the figure below to answer question **R1**.



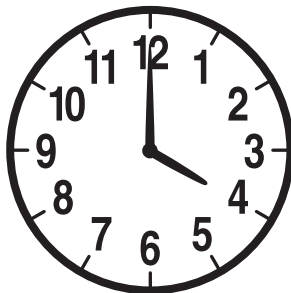
R1 How many cans belong on the top to complete this pattern?

- A** 1
- B** 2
- C** 3

R2 Which unit can be used to measure the width of a window?

- A** inches
- B** pounds
- C** quarts

R3 What time is shown on the clock?



- A** 12:00
- B** 2:00
- C** 4:00

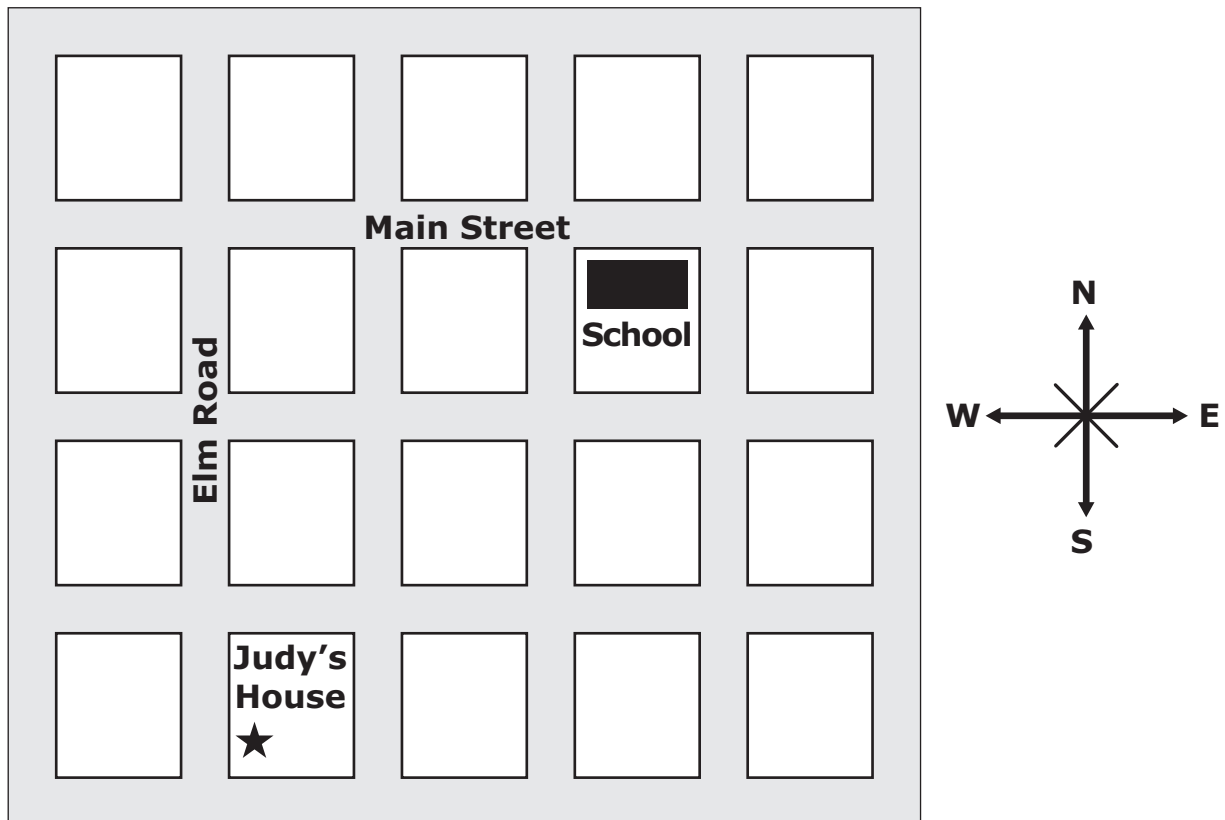
Use the seating chart below to answer question **R4**.

Front		
Tom	Victor	Carmen
Ming	Danny	Jessica
Lisa	Emily	Sara

R4 Who sits directly behind Jessica?

- A** Carmen
- B** Victor
- C** Sara

Use the map and compass below to answer question **R5**.

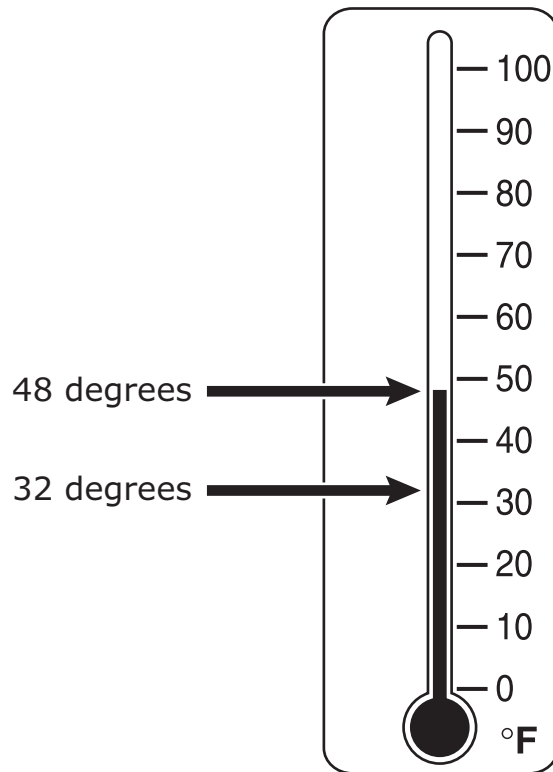


- R5** Judy left her house and turned right onto Elm Road and then right onto Main Street to get to school.

What direction did Judy travel on Elm Road?

- A** north
- B** south
- C** west

Use the thermometer below to answer question **R6**.



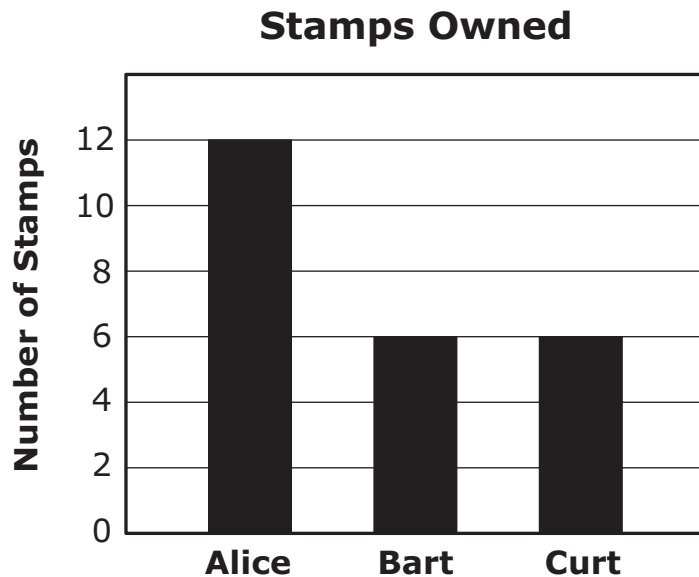
R6 Water freezes at 32 degrees Fahrenheit.

It is 48 degrees Fahrenheit now.

How many degrees lower does the temperature need to be for water to freeze?

- A** 16 degrees Fahrenheit
- B** 22 degrees Fahrenheit
- C** 27 degrees Fahrenheit

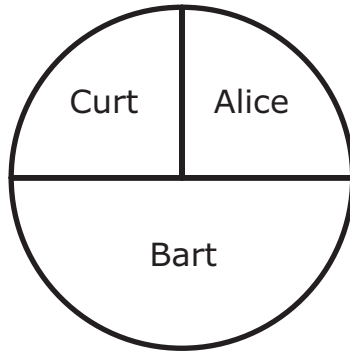
Use the bar graph below to answer question **R7**.



- R7** Which of the circle graphs on the next page shows the same data as the graph above?

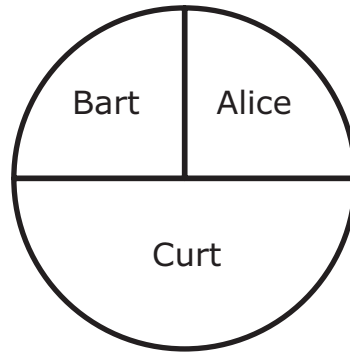
Stamps

A



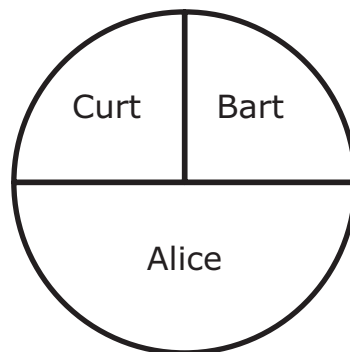
Stamps

B



Stamps

C



R8 Mark needs 20 feet of string to fly his kite.

He has 50 feet of string he can use.

How much string will be left over?

A 20 feet

B 30 feet

C 40 feet

R9 Jake had 12 markers.

He lost 3 of the markers.

Which expression shows how many markers Jake has now?

A 12×3

B $12 - 3$

C $12 + 3$

R10 Bobby gets paid \$1 for every pound of cans he recycles.

If he recycles 5 pounds of cans, how much money will he make?

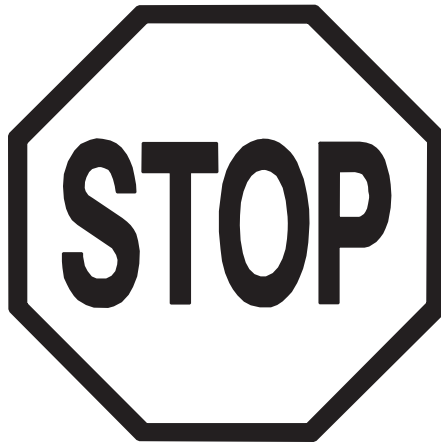
A \$6

B \$5

C \$1



Do Not Continue.



Do not continue until instructed to do so.

Below is a list of the Extended Grade Level Content Expectations (EGLCE) for each released item found in this booklet. The chart contains the EGLCE code, a brief description of what is measured, and the correct answer for each released item.

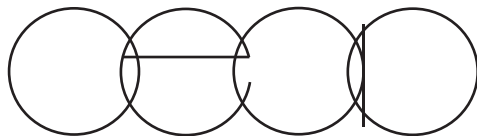
Because the assessment was administered during the **fall** of the school year, only content from the *previous* grade level was measured on the assessment. For example, items eligible for the Grade 7 assessment will measure Grade 6 EGLCE.

Full descriptions of the EGLCE contained in the chart below are available for review and download at **www.mi.gov/mi-access**.

Released Item Number	EGLCE Code	STRAND or Abbreviated Extended GLCE Descriptor	Answer Key
		DATA AND PROBABILITY	
R7	D.RE.06.EG01	Read data	C
		GEOMETRY	
R4	G.LO.06.EG01	Use relative position of objects on a plane and in space	C
R5	G.LO.06.EG03	Read, interpret and use maps and grids	A
		MEASUREMENT	
R10	M.PS.06.EG12	Add and subtract money in dollars and cents	B
R2	M.UN.06.EG02	Select units of measure	A
R3	M.UN.06.EG07	Tell time on a clock to the nearest hour	C
R6	M.PS.06.EG09	Solve one-step word problems	A
		NUMBERS AND OPERATIONS	
R8	N.FL.06.EG07	Add and subtract one- and two-digit numbers	B
R1	N.MR.06.EG05	Create, describe, and extend simple number patterns	A
R9	N.MR.06.EG15	Select numbers to solve problems	B



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